



















Product Brief

 ASRock Super Alloy XXL Aluminum Alloy Heatsink Premium Alloy Choke NexFET™ MOSFET 12K Platinum Ca Sapphire Black PCB

Gaming Armor

CPU Power - Hi-Density Power Connector
Memory - NexFET™ MQSFET + 15µ Gold Contact in DIMM Slots
VGA Card - 15µ Gold Contact in VGA PCIe Slot, PCIe Power Connector
Internet - Qualcomm® Atheros® Killer™ LAN

- Cooling XXL Aluminum Alloy Heatsink
 Audio Purity Sound™ 2
 Supports 5th Generation, New 4th and 4th Generation Intel® Core™ i7/i5/i3/Pentium®/Celeron® Processors (Socket 1150) Supports Dual Channel DDR3 3300+(OC)

- Supports Dual Channel DDR3 3300+(OC)
 2 PCle 3.0 x16, 1 PCle 2.0 x16, 1 PCle 2.0 x1
 Supports AMD Quad CrossFireX[™] and NVIDIA[®] Quad SLI[™]
 Graphics Output Options: D-Sub, DVI-D, HDMI
 7.1 CH HD Audio with Content Protection (Realtek ALC1150 Audio Codec), Supports Purity Sound[™] 2 & DTS Connect
 Qualcomm[®] Atheros[®] Killer[™] LAN
 1 SATA Express, 6 SATA3, 1 eSATA, 1 M.2 (Gen2 x2/SATA), 6 USB 3.0 (2 Front, 4 Rear), 8 USB 2.0 (4 Front, 3 Rear, 1 Fatal1ty Mouse Port)
 1 COM Port Header, 1 Thunderbolt AIC Connector
 Supports ASRock HDD Saver Technology, Full Spike Protection, ASRock Cloud.
- Supports ASRock HDD Saver Technology, Full Spike Protection, ASRock Cloud, APP Shop, F-Stream, Key Master, Full HD UEFI



GAMING Killer















Detail Specification

- Micro ATX Form Factor - High Density Glass Fabric PCB

ASRock Super Allov

Nock Super Alloy

- XVI. Aluminium Alloy Heatsink

- Premium Alloy Choke (Reduces 70% core loss compared to iron powder choke)

- NexFET" MOSFET

- Nichicon 12K Platinum Caps (100% Japan made high quality conductive polymer capacitors)

- Sapphire Black PCB

ASRock Full Spike Protection

ASRock Cloud ASRock APP Shor

CPU Power - Hi-Density Power Connector - HI-Density 1 STEEL
Memory
- NexFET™ MOSFET
- 15µ Gold Contact in DIMM Slots
VGA Card
45µ Gold Contact in VGA PCIe §

15μ Gold Contact in VGA PCIe Slot (PCIE1)

- PCle Power Connector

Internet

- Qualcomm[®] Atheros[®] Killer™ LAN

Cooling
- XXL Aluminum Alloy Heatsink

Audio - Purity Sound™ 2

- Supports 5th Generation Intel[®] Core™ i7/i5/3/Pentium[®]/Celeron[®] Processors (Socket 1150) - Supports New 4th and 4th Generation Intel[®] Xeon[®]/Core™ i7/i5/i3/Pentium[®]/Celeron[®] Processors (Socket 1150)

- Digi Power design

- 8 Power Phase design - Supports Intel® Turbo Boost 2.0 Technology

- Supports Intel® K-Series unlocked CPUs - Supports ASRock BCLK Full-range Overclocking

- Dual Channel DDR3 Memory Technology

- Dual Chairne DUAS wellon't rectiniougy
- 4.x DDR3 DIMM Slots
- Supports DDR3 3300+(OC)2933(OC)/2800(OC)/2400(OC)/2133(OC)/1866(OC)/1600/1333/1066 non-ECC, un-buffered memory
- Max. capacity of system memory. 32GB

- Supports Intel® Extreme Memory Profile (XMP) 1.3 / 1.2

- 2 x PCI Express 3.0 x16 Slots (PCIE1/PCIE3: single at x16 (PCIE1); dual at x8 (PCIE1) / x8 (PCIE3))
- 1 x PCI Express 2.0 x16 Slot (PCIE4: x4 mode)
- 1 x PCI Express 2.0 x1 Slot
- Supports AMD Quad CrossFireXTM and CrossFireXTM
- Supports NVIDIA® Quad SLITM and SLITM

* Intel® HD Graphics Built-in Visuals and the VGA outputs can be supported only with processors which are

GPU integrated.

Supports Intel® HD Graphics Built-in Visuals: Intel® Quick Sync Video with AVC, MVC (S3D) and MPEG-2

Full HW Encode 1, Intel® InTru™ 3D, Intel® Clear Video HD Technology, Intel® Insider™, Intel® HD Graphics + 400/4600

- Pixel Shader 5.0, DirectX 11.1

- Max. shared memory 1792MB

- Three graphics output options: D-Sub, DVI-D and HDMI

Supports Triple Monitor

Supports HDMI with max. resolution up to 4K x 2K (4096x2304) @ 24Hz

- Supports HUMI with max: resolution up to 4K x 2K (4095k2304) @ 24Hz
- Supports DHD with max: resolution up to 1920x1200 @ 06Hz
- Supports D-Sub with max resolution up to 1920x1200 @ 60Hz
- Supports Auto Lip Sync, Deep Color (12bpc), xvYCC and HBR (High Bit Rate Audio) with HDMI Port
(Compliant HDMI monitor is required)
- Supports HDCP with DVHD and HDMI Ports
- Supports Full HD 1080p Blu-ray (BD) playback with DVHD and HDMI Ports

-7.1 CH HD Audio with Content Protection (Realtek ALC1150 Audio Codec)

Premium Blu-ray Audio support Supports Surge Protection (ASRock Full Spike Protection)

- Supports Purity Sound™ 2

- Nichicon Fine Gold Series Audio Caps - Nuclinon Fine Cold Senes Audio Caps
- 115dB SNR DAC with Differential Amplifier
- TI® NE5532 Premium Headset Amplifier (Supports up to 600 Ohm headsets)
- Direct Drive Technology
- EMI Shielding Oover
- PCB Isolate Shielding

- Supports DTS Connect

PCIE x1 Gigabit LAN 10/100/1000 Mb/s

Qualcomm® Atheros® Killer™ E2200 Series
Supports Qualcomm® Atheros® Security Wake On Internet Technology

Supports Watercommer, American Security Wake On Internet Technol Supports Wake-On-LAN
Supports Lightning/ESD Protection (ASRock Full Spike Protection)
Supports Energy Efficient Ethernet 802.3az
Supports PXE

- 1 x PS/2 Mouse/Keyboard Port
- 1 x D-Sub Port
- 1 x D-Sub Port
- 1 x D-VI-D Port
- 1 x HDMI Port
- 1 x HDMI Port
- 1 x Optical SPDIF Out Port
- 1 x Optical SPDIF Out Port
- 1 x eSATA Connector
- 3 x USB 2.0 Ports (Supports ESD Protection (ASRock Full Spike Protection))
- 1 x Fatality Mouse Port (USB 2.0) (Supports ESD Protection (ASRock Full Spike Protection))
- 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED)
- HD Audio Jacks: Rear Speaker / Central / Bass / Line in / Front Speaker / Microphone

- 6 x SATA3 6.0 Gb/s Connectors, support RAID (RAID 0, RAID 1, RAID 5, RAID 10, Intel Rapid Storage Technology 13 and Intel Smart Response Technology), NCQ, AHCI and Hct Plug (SATA3 1 connector is shared with the eSATA port) - 1 x SATA Express 10 Gb/s Connector (shared with SATA3_4, SATA3_5 and M.2 Socket) "Support to be announced" 1 x SATA Connector : support to be announced 1 x eSATA Connector : support RAID (RAID 0, RAID 1, RAID 5, RAID 10, Intel Rapid Storage Technology 13 and Intel Smart Response Technology), NCQ, AHCI and Hot Plug 1 x M.2 SSD (NGFF) Socket 3, supports M.2 SATA3 6.0 Gb/s module and M.2 PCI Express module up to Gen2 x2 (10 Gb/s)

-1 x COM Port Header
-1 x Chassis Infrusion Header
-1 x Chassis Infrusion Header
-1 x Chassis Infrusion Header
-1 x PDM Header
-1 x PDM Header
-2 x CPU Fan Connectors (1 x 4-pin, 1 x 3-pin)
-2 x Chassis Fan Connectors (1 x 4-pin, 1 x 3-pin)
-1 x Power Fan Connector (1 x 4-pin, 1 x 3-pin)
-1 x Power Fan Connector (1 x 4-pin, 1 x 3-pin)
-1 x 2 y in ATX Power Connector
-1 x 8 pin 12 Y Power Connector (Hi-Density Power Connector)
-1 x Font Panel Audio Connector
-1 x Font Panel Audio Connector
-1 x Thunderbolt AIC Connector
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64Mb AMI UEFI Legal BIOS with multilingual GUI support

- ACPI 1.1 Compliant wake up events - SMBIOS 2.3.1 support - CPU, DRAM, PCH 1.05V, PCH 1.5V Voltage multi-adjustment

Drivers, Utilities, AntiVirus Software (Trial Version), Google Chrome Browser and Toolbar, Start8 (30 days trial), Orbweb, ME Professional (Win 8.1 / 7), Xsplit, Killer Network Manager

ASRock F-Stream - ASRock Disk Health Report ASRock USB Kev

- ASROCK USB Key
- ASRock Key Master
- ASRock APP Charger
- ASRock XFast RAM
- ASRock Restart to UEFI

- ASRock Urert Guide - ASRock Instant Flash - ASRock Internet Flash - ASRock Crashless BIOS - ASRock OMG (Online Management Guard)

ASRock My Favorites in UEFI

ASRock Full HD UEFI

ASRock LIFFI Guide

 ASRock UEFI System Browse
 ASRock UEFI Tech Service - ASRock Dehumidifier

- ASRock Easy RAID Installer - ASRock Easy Driver Installe

CPUIChassis temperature sensing
CPUIChassis/Power Fan Tachometer
CPUIChassis/Owter Fan Tachometer
CPUIChassis Quiet Fan (Auto adjust chassis fan speed by CPU temperature)
CPUIChassis Fan multi-speed control
CASE OPEN detection
Voltage monitoring: +12V, +5V, +3.3V, CPU Vcore

Microsoft® Windows® 8.1 32-bit / 8.1 64-bit / 8 32-bit / 8 64-bit / 7 32-bit / 7 64-bit

- FCC, CE, WHQL - ErP/EuP ready (ErP/EuP ready power supply is required)

- 1 x ASRock SLI_Bridge_Card Quick Installation Guide, Support CD, I/O Shield

- 2 x SATA Data Cables - 1 x Screw for M.2_SSD (NGFF) Socket 3

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Networking Performance

Fatal1ty ASRock Motherboard Series features Killer™ E2200 Intelligent Networking Platform, which delivers fast networking performance for time-sensitive UDP (User Datagram Protocol) based applications, such as online games and high-quality media streaming.

Lower Latency in Online Games

Latency Lower is Other LAN









The extra large massive aluminum alloy heatsinks dramatically take away heat and cool down MOSFETs, chipsets.





The new generation alloy chokes effectively increase up to 90% saturation current and feature a highly magnetic and heat resistant design, making the motherboard more efficient, stable and reliable.

Saturation Current

mysterious touch.

Ferrite Choke

Pure black PCB appearance. The new Sapphire Black PCB represents rock-solid quality and gives the motherboard a more

Nichicon's supreme 12K platinum capacitors! The industry's longest lifespan - 12,000 hours.*

> * Tested under industry standard 105 degree Celsius ambient tempera



Durability

High-End MBs



The next generation NexFET MOSFETs provide lower Rds(on) 2.9 mΩ, delivering higher efficiency and lower temperature.





Sapphire Black PCB



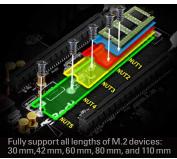


M.2 Socket (PCIe Gen2 x2 & SATA3)



The onboard M.2 socket is a new interface for connecting Next Generation Form Factor (NGFF) solid state drives or other devices. ASRock supports M.2 SATA3 6.0 Gb/s modules and M.2 PCI Express modules up to Gen2 x 2 10 Gb/s, which is 2X faster compared to other M.2 Gen2 x 1 solutions that are limited to 5 Gb/s.







Horizontal installation design prevents any interferences with discrete graphics cards and occupation of PCle slots

Purity Sound™ 2 brings you:

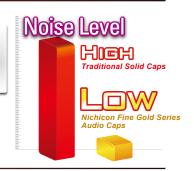




Purity Sound™ 2

Purity Sound™ 2 includes 7.1 CH HD audio with Realtek ALC1150 audio codec, 115dB SNR DAC with Differential Amplifier, cap less Direct Drive technology, EMI shielding cover, PCB isolate shielding and DTS Connect. As Nichicon audio capacitors are what every audiophile has been longing for on a PC, ASRock applied these high quality capacitors for Purity Sound™ 2.







Key Master

Key Master consists of two major features, Sniper Key and Macro Key. It enhances your mouse and keyboard with customizable macros, sniper modes, key repeat rates and repeat delay.

Mouse Track -

Sniper Key

Use Sniper Key to shift the mouse speed when you're in sniper mode, it will greatly sharpen your accuracy.



Without Sniper Key With Sniper Key

ACRed B

Macro Key

Create your own set of keyboard hotkeys and macros with Macro Key to save the trouble.







XSplit Broadcaster is a desktop application designed to make your multimedia broadcasting, live-streaming and recording a lot easier and more fun. XSplit Gamecaster is a simplified version of XSplit Broadcaster. We're giving XSplit Broadcaster & XSplit Gamecaster 3-month premium license bundle for FREE! A US\$ 24.95 value!

XSplit is provided by a third party. Restriction may apply and the offer is subject to change, termination or discontinuation by the third party without prior notice. Please visit the website for further details: http://www.asrock.com/micrositer/Fatal1ty/









ASRock Cloud* technology makes your mobile devices connect to your PC seamlessly and supports multi devices for accessing File Explorer cloud service simultaneously! We offer a one-year subscription to Orbweb.ME Professional version, a personal cloud service which is \$49.99 per year. It allows you to get connected with your PC's files, music, photos, and video clips remotely with tablets anytime, anywhere. Plus an additional one-month upgrade to Orbweb.ME Ultimate package with Remote Desktop function.

* OrbWeb ME is provided by a third party. Restriction may apply and the offer is subject to change, termination or discontinuation by the third party without prior notice. Please visit the website for further details: http://www.asrock.com/feature/cloud/index.html



Broadcast Platform





Fatal1ty Mouse Port

After plugging a USB mouse into the Fatal1ty Mouse Port and running F-Stream, gamers can choose their own preferred mouse polling rate from 125 Hz to 1000 Hz.



F-Stream

F-Stream is Fatal1ty's multi purpose software suite with a new interface, more new features and improved utilities, including OC Tweaker and a whole lot more.



Digi Power

By adopting digital Pulse-width modulation (PWM), the ASRock motherboard can provide CPU Vcore voltage more efficiently and smoothly.



SATA Express Connector

The SATA Express* interface provides PCIe Gen2x2(10Gb/s) data transfer speed. This motherboard offers the latest SATA Express connector to enthusiasts to enjoy the ultimate performance.

Support to be announced.



HDD Saver Technology

There's a dedicated 4-pin HDD Saver Connector placed near the SATA ports. By connecting it to the HDDs, you can shut down or turn on the HDDs via software when needed. HDD Saver Technology secures more privacy, saves more energy, and extends HDD life.



ASRock APP Shop

We provide various apps and support software for users to download. You can easily optimize your system and keep your motherboard up to date with ASRock APP Shop.

